VOSKRESENSKAIA, T.I. (Tushino, Mosk. oby. ul. Okruzhnaia 22 kv. 38. SSSR)

Optical study of blood plasma in cancer. Heoplasma, Bratisl. 5 no.1: 44-52 1958.

1. (Iz Tsentral'noi Klinicheskoi Bol'nitay MPS, Kafedra khirurgii Tsentral'nogo Instituta Usovershenstvovaniia vrachei, Moskva, SSSR)

(NEOPIASMA, blood in

plasma polarography (Rus))

(POIAROGRAPHY,

of plasma in cancer (Rus))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

VOSKRESKNSKAYA, T.I. (Moskva)

Optic investigations of the blood serum in cancer [with summary in English]. Pat.fiziol. i eksp.terap. 2 no.3:36-40 My-Je '58 (MIRA 11:7)

l. Iz TSentral'noy klinicheskoy bol'nitsy Ministerstva putcy soobshcheniya i kafedry khirurgii (zav. - prof. V.I. Kazanskiy) TSentral'nogo instituta usovershenstvovaniya vrachey.

(NEOPLASMS, blood in, polarimetry (Rus))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

VOSKRESENSKAYA, T. I.

WOSKRESHISKAYA, T. I.: "The optical activity of the blood in cancer."
Min Health USSR. Central Inst for the Advanced Training of Physicians. Moscow, 1956. (Dissertation for the Degree of Candidate in Medical Science.)

Knizhnaya letopis', No. 31, 1956. Moscow.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

AND AND ASSOCIATE AND ESTABLISHED THE SPECIAL STREET, THE MEDICAL PROPERTY OF THE

ALPATOV. V.V.; VOSKRESENSKAYA, T.I.

Decrease of the optical activity of the blood serum in man with aging. Trudy MOIP.Otd.biol.6:145-149'62. (MIRA 16:7)

1. The State Research Institute of Roentgenology and Radiology, Ministry of Health of RSFSR, Radiolog. Department. (SERUM—OPTICAL PROPERTIES) (AGING)

KRUGLIKOVA\_L'VOVA, R.P.; VOSKRESENSKAYA, T.N.

Control of commercial tetracycline preparations. Antibiotiki 5 no.2:115-117 Mr-Ap '60. (MIRA 14:5)

1. Zavod medpreparatov No.1, Moskva. (TETRACYCLINE)

## Voskieshiskaya, T.S.

Agramilocytosis as a complication of antibiotic therapy.

Vrach.delo no.3:293 Mr '59. (MIRA 12:6)

1. Terapevticheskoye otdeleniye (zav. - T.S. Voskresenskaya)
Yaroslavskoy dorozhnoy bol'nitsy (nauchnyy rukovoditel' prof. M.E. Vasilevskiy).
(AGRANULOCYTOSIS) (ANTIBIOTICS)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

### "APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86

CIA-RDP86-00513R001861020018-4

VOSERSENSKIYA, V.B.; KOVALISKIY, V.V.; NEKITOV, E.N.; PARCHOVA, T.F.

Find of "bittanblistne" in the kimoerlites of Situatio.

[ac-Vers.min.on-vo 92 no.51650.-003 \*e5.

(MIRA 18:21)

### MENYAYLOV, A.A.; VOSKRESENSKAYA, V.B.

Pipes with multistage trap sills in the Botuobuya region. Trudy IAFAN SSSR. Ser.geol. no.8:121-132 '62. (MIRA 15:7) (Yakutia-Sills (Geology)) (Yakutia-Kimberlite)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

### VOSKRESENSKAYA, YE. V.;

BALAKHOVSKIY, S.D.; VOSKRESENSKAYA, Ye.V.; FEDOROVA, V.N.

Distribution of 835 in organs and tissues in a normal organism and one deficient in vitamin A after intra-abdominal introduction of sulfur-labeled methionine. Dokl. AN SSSR 97 no.1:115-118 J1 '54. (MIRA 7:8)

1. Institut biokhimii im. A.N.Bakha Akademii nauk SSSR. Predstavleno akademikom A.I.Oparinym.
(Sulfur--Isotopes) (Deficiency diseases) (Methionine)

CORCHAKOV, Ovidiy Aleksandrovich; VOSKRESENSKAYA, Ye., red. [Visiting Uncle Sam; a journalist's report] V gostiakh u diadi Sema; reportazh. Moskva, Molodaia gvardiia, 1965. 221 p. (MIRA 18:3)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

## VOSKRESENSKAYA, Z. "I.IA. Krivoshchekov, local geographer" by B.N.Vishnevskii. Reviewed by Z.Voskresenskaia. Geog. v shkole 25 no.2:92-93 Mr-Ap '62. (KIRA 15:2) (Krivoshchekov, Ivan Iakovlevich) (Vishnevskii, B.N.)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

Experience ne.5:66-69	in teaching arithmetics in the fifth grade. S-0 '56. (ArithmeticsStudy and teaching)	Mat.w shkele (MLRA 9:10)
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e e e e e e e e e e e e e e e e e e e		

JELACIO, Olga, doc., dr.; VOSKRESENSKI, Igor, dr.

Thrombo-embolism on the autopsy table. Voj.san.pregl. 18 no.2:177-182 F '61.

1. Vojnomedicinska akademija u Beogradu, Institut za patologiju i sudsku medicinu.

(THROMBORMBOLISM pathol)

VOSKRESENSKY,

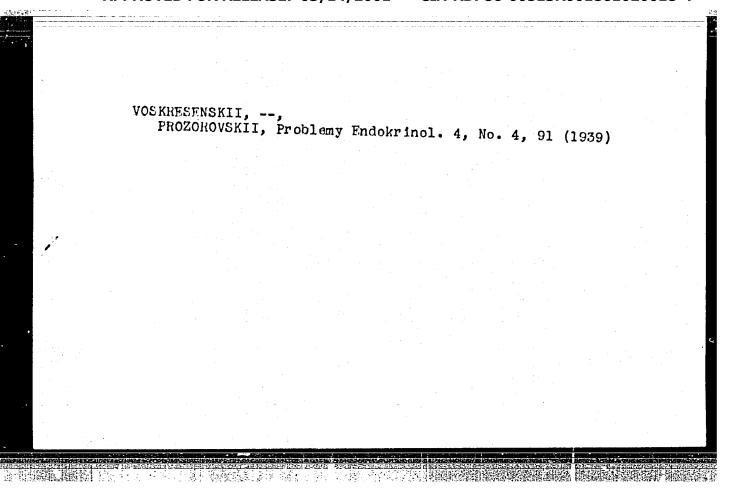
AIZIKS; BRODSKIT; VIRABOV; YOSKRESENSKIY; GIDZHEU; DONOHAK; ZNAMENSKIY;

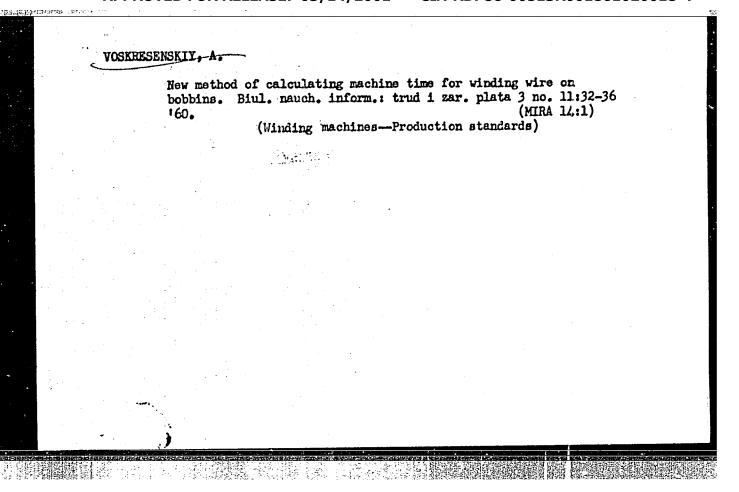
KOSTINA; KARITSKAYA; KURNOSOV; PONOMAREV; YAROVITSKIY

Aleksei Aleksandrovich Kriukov. Vest. otorinolar. 12 no.2:79-80

Mr-Ap '50

1. Obituary.





ARTEM'YEV, Aleksey Vasil'yevich; VOSKRESENSKIY, Aleksendr Alekseyevich; ITTENBERG, I.A., kand. tekhn. nauk, retsenzent; IYALIN, F.I., inzh., red.; MAKRUSHINA, A.N., red. izd-va; BODROVA, V.A., tekhn. red.

[Loading and unloading machines and mechanisms] Pogruzochnc-razgruzochnye mashiny i mekhanismy. Moskva, Izd-vo "Rechnoi transport," 1961. 409 p.

(Conveying machinery) (Cranes, derricks, etc.)

(Loading and unloading)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

KIRILLOV, I.A., prof.; BORODIN, S.V.,; VINOKUR, R.D.; VOSKRESENSKIY, A.A.; GIROVSKIY, V.P.; ZHITOMIRSKIY, E.G.; SAFRAY, G.Ye.; STCHEV, H.G.; NIKITIN, H.D.; FILATOV, H.L.; PIALKOVA, V., red.; LEBKDEV, A., tekhn.red.

[Finances of branches of the national economy] Financy otraslei narodnogo khoziaistva. Avtorskii kollektiv pod rukovodstvom I.A.Kirillova. Moskva, Gosfinizdat, 1958. 302 p. (MIRA 12:2) (Finance)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

### VOSKRESENSKIY, A.

Electric meter for hand pulley blecks. Zhil.-kom.khoz. 5 no.8: 26-27 155. (MIRA 9:3)

- 1. Machal'nik vedeprevednykh nasosnykh stantsiy tresta "Vedekanal",
- g. Kalinina.

(Pulleys)

# VOSERESENSKIY, A. Assembling and operating sinking pumps in Kalinin. Zhil.-kom. khos. 7 no.3:17-19 '57. (MERA 10:4) 1. Machal'nik vodoprovodnykh nasosnykh stantsiy tresta "Vodokanal" goroda Kalinina. (Kalinin-Mater supply) (Pumping machinery)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

VOSKNESHNSKIY, A

Remote control and remote signal systems for pumping units.
Zhil.-kom.khoz.7 no.11:10-11 '57. (MIRA 10:12)

1. Nachal'nik vodoprovodnykh nasosnykh stantsiy g.Kalinina.
(Remote control) (Pumping stations)

Water-pressure gauge. Zhil.kom.khoz. 9 no.6:24 '59.
(Manometer)

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MIKOYAN, A.; IGNATOV, N.; KOROVUSHKIN, A.; GARBUZOV, V.; KABKOV, Ya.;
KUDRYAVTSEV, A.; BORYCHEV, I; VOROB'YEV, V.; SVESHNIKOV, M.;
USHAKOV, V.; MIROSHNICHENKO, B.; ZENCHENKO, N.; BAEUSHKIH, V.;
NIKITKIN, N.; PODSHIVALENKO, P.; ZOTOV, M.; VOSKRESENSKIY, A.;
KAZANTSEV, A.; KORDYUKOV, A.; NOSKO, P.; PLESHAKOV, S.; VERSOV, A.;
ROMASHOV, A.

I.N. Kazakov; obituray. Den. 1 kred. 19 no.3:95 Mr '61.

(MIRA 14:3)

(Kazakov, Ivan Nikolaevich, 1907-1961)
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VOSKRESENSKIY, A.; IZOSIMOV, G.; PROKHOROV, A.

Generator of moods. Znan.-sila 37 no.5:34-35 My '62.

(Psychology, Physiological) (Rhythm)

### VOSKRESENSKIY, A.A.

Making airtight cameras for the operation in the inert gas atmosphere. Zav. lab. 30 no.5:635-636 '64. (MRR 17:5)

1. Moskovskiy institut khimicheskogo mashinostroyeniya.

ACCESSION NR: AP4041764

8/0076/64/0038/006/1703/1705

AUTHOR: Volodina, N. A.; Shidlovskiy, A. A.; Voskresenskiy, A. A.

TITIE: Heat of formation of alkali metal chlorates.

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 6, 1964, 1703-1705

TOPIC TAGS: cesium chlorate, cesium chloride, thermodynamic function, calorimetry, alkali chlorate, alkali chloride, explosive, chlorate, fuel

ABSTRACT: The purpose of the study was to investigate the change of the difference

ΔH<sub>298</sub>, c1 - ΔH<sub>298</sub>,c103

for salts with the same cation and the consideration of salts of different metals. It was also of practical interest to evaluate Q in reactions of the type

 $1/n \text{ Me}(C10_3)_n = 1/n \text{ MeCl}_n + 1.5 0_2 + Q$ 

since the explosive properties of chlorates and their mixtures with fuels depend

Cord 1/2

ACCESSION NR: AP4041764

to a great extent on the amount of heat which is liberated in the decomposition of chlorates. Cesium chlorate was the subject of this investigation. The iodometric assay of cesium chlorate was 96.5 %. The heat of the solution of cesium chlorate in water was determined in an isothermal calorimeter. The temperature measurements were accurate to ± 0.002 °C. The calorimeter was electrically calibrated and the time was measured with an accuracy of ± 0.5 %. The determined standard heat of the solution of cesium chlorate in water was AH208 ± 11.8 kcal/mole and the calculated heat of formation of crystalline CsClO3 is -94.6 kcal/mole. The tabulation of the heats of formation of alkali metal chlorates indicates that the difference in heats of formation of salts with the same cation are not strictly constant (10.3 ± 1.3 kcal/mole) and it slowly decreases from Na to °Cs. Orig. art. has: 3 tables.

ASSOCIATION: Moskovskiy institut khimicheskogo mashinostroyeniya (Moscow Institute of Machine Building for Chemical Industry)

SUBMITTED: 25Nov63

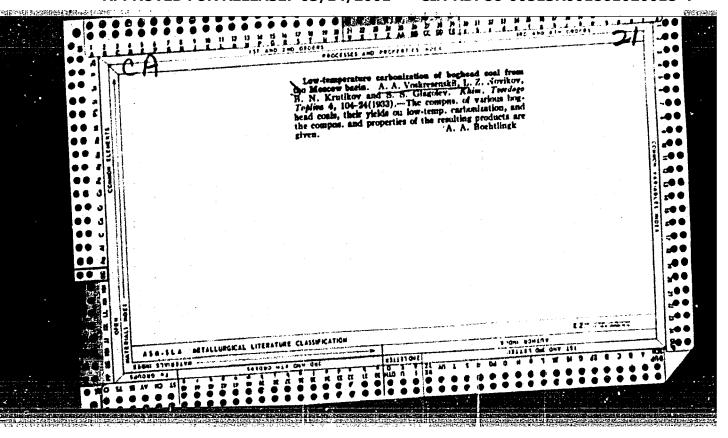
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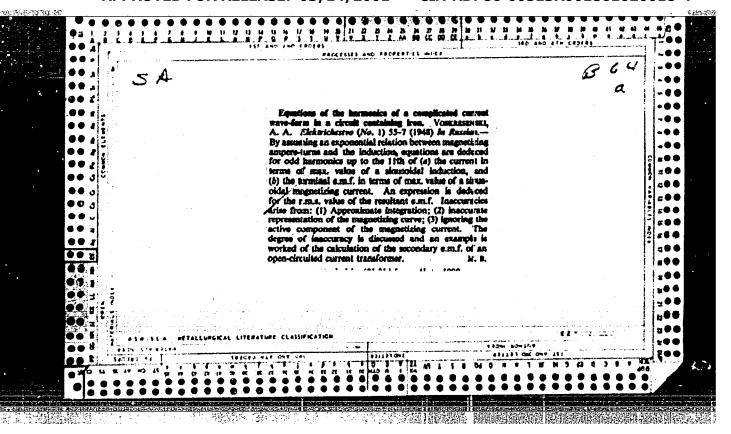
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OTHER: 001

Card 2/2





AUTHOR:

Voskresenskiy, A. A.

20-119-4-26/60

TITLE:

The Adsorption of Ammonia on Graphitized Carbon Black

(Adsorbtsiya ammiaka na grafitirovannoy sazhe)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1958, Vol. 119,

Nr 4, pp. 724 - 726 (USSR)

ABSTRACT:

The author first gives a short report on the present stage of the problem and on the results of some previous works dealing with this subject. According to these results it is impossible simply to apply the conceptions worked out for the adsorption of water to the adsorption of ammonia on carbon adsorbents. The present paper describes the results obtained by measuring the adsorption of ammonia vapors on carbon black which had formerly been heated red hot at a temperature of 1700° in a hydrogen current. The selection of the carbon black and its preliminary treatment were determined by the search for a carbon- adsorbent with a relatively homogeneous surface. The specific surface of the carbon black pre-treated in this manner amounted to ~ 100m²/g. The temperature of the adsorbent was kept at a constant level by means of a pyrostat with an accuracy of ± 0,1°. A diagram shows the isothermal lines of

Card 1/4

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

The Adsorption of Ammonia on Graphitized Carbon Black 20-119-4-26/60

the adsorption of ammonia on carbon black determined by the author at a temperature of -36,3°. Within the entire range of the relative pressures employed here adsorption is fully reversible. Up to a certain point A on this curve it is monomolecular, and this point A corresponds approximately to transition to polymolecular adsorption. Comparing the isothermal lines obtained here with those - (well-known from publications) - for the adsorption of water vapors on similar adsorbents leads to the following conclusions: The isothermal lines of adsorption in the monomolecular domain are in both cases concave, but their shape nevertheless shows considerable differences. The isothermal lines of the adsorption of water show a domain with a very steep slope, which does not exist in the isothermal lines of the adsorption of ammonia. In the case of the adsorption of ammonia on carbon black with different acidity no shifting of isothermal lines towards higher relative pressure in connection with a reduction of the quantity of surface oxides can be observed. In the case of the adsorption of ammonia on hydrocarbon adsorbents the amounts of adsorption are quite considerable even at

Card 2/4

The Adsorption of Ammonia on Graphitized Carbon Black 20-119-4-26/60

relatively low pressures. In the interval of relative pressures of from 0.1 to 0.45 the data found here can be expressed by means of an equation of the following type:  $a = a_0 ch/(1 - ch)$ . Here a denotes adsorption, h - the relative pressure of water vapors, c and a - constants. a here denotes the number of "primary " adsorption centers , which the molecules of the chemically adsorbed oxygen turn out to be. Finally, an expression is derived for the degree of filling up the surface with complexes from 1,2,3 etc. molecules. The author thanks V. V. Serpinskiy and B. P. Bering for the constant interest they displayed and for their assistance in working out this paper. There are 2 figures and 5 references, 4 of which are Soviet.

ASSOCIATION: Institut fizicheškoy khimii Akademii nauk SSSR (Institute of Physical Chemistry AS USSR)

Card 3/4

The Adsorption of Ammonia on Graphitized Carbon Black 20-119-4-26/60

PRESENTED: December 2, 1957, by M. M. Dubinin, Member, Academy of

Sciences, USSR

SUBMITTED: November 22, 1957

Card 4/4

5(4) AUTHORS:

907/20-122-3-31/57

Timofeyev, D. P., Voskresenskiy, A. A.

TITLE:

The Investigation of the Mechanism of Internal Diffusion by the Method of X-Ray Diascopy (Issledovaniye mekhanizma vnutrenney diffuzii metodom rentgenovskoy diaskopii)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 122, Nr 3, pp 434-436

(USSR)

ABSTRACT:

The matter adsorbed in porous sorbents from a flowing gas moves by diffusion in the volume of the pores and on the surface. Both kinds of transfer proceed simultaneously and into the same direction. This paper deals with the separation of the flows in the gaseous and in the adsorption phase. The idea of the method is discussed in a few lines. Granulated charcoal of vapor-gaseous activation was used as a sample for these investigations. The results of one of the experimental series are represented by a figure. According to these results, the transfer of matter in the gaseous phase is of essential importance and the role of the great poresas means of transfer is very essential for the velocity of the internal diffusion. The authors thank Academician M. M. Dubinin for dis-

Card 1/2

The Investigation of the Mechanism of Internal Diffusion by the Method of X-Ray Diascopy

cussing the results. There are 4 figures.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR

(Institute of Physical Chemistry, Academy of Sciences, USSR)

PRESENTED: April 26, 1958, by M. M. Dubinin, Academician

SUBMITTED: April 12, 1958

Card 2/2

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

## BAZILEVSKIY, V.M.; VOSKRESENSKIY, A.A. Laboratory study of the methods of preparing phosphorus copper by treating solid and molten copper with gaseous phosphorus. Trudy Giprotsvetmetobrabotka no.20:287-304 '61. (MIRA 15:2)

(Copper) (Phosphorus)

B/069/61/023/001/001/009 B020/B056

AUTHOR:

Voskresenskiy, A. A.

TITLE:

Adsorption of ammonia vapors on carbon black

PERIODICAL:

Kolloidnyy zhurnal, v. 23, no. 1, 1961, 3-7

TEXT: The measurements carried out by the author had the purpose of clearing up the character of non-equilibrium adsorption of ammonia in the presence of surface oxides. Channel black of the type chepoh-6 (sferon-6) was used as adsorbent; the constant temperature of the adsorbent was maintained by means of a cryostat (Ref. 6). The temperature fluctuations did not exceed ±0.1°C; the ammonia vapor pressure showed a deviation of ±0.8% from the mean value of 620 mm Hg. The measurements were carried out at -36.3°C by a volumetric method. The evacuation of the weighed portion of the carbon black sferon-6 was carried out at room temperature without heating. On the adsorption branch of the isothermal line, obtained after some days of uninterrupted operation of the cryostat (Fig. 1), the flat sections correspond to the series of measurements carried out at constant temperature of the cryostat (-36.3°C), and the breaks correspond Card 1/2

s/069/61/023/001/001/009 B020/B056

Adsorption of ammonia vapors ...

to two heating periods of the cryostat to room temperature. The first series, which is denoted on the curve by four points, was carried out within 8 hours at constant temperature in the cryostat. Before the next series, the cryostat was switched off, and the adsorbent was heated to 20-25°C. In the case of repeated cooling of the cryostat to -36.3°C, it was found that during the 12 hours' heating, strong adsorption of ammonia vapors occurred, so that the pressure in the system was doubled. Before the following heating of the cryostat, a series of measurements was carried out up to nearly  $P/P_8 = 0.3$ ; in the case of repeated heating, the sorption rate again increased considerably. The data obtained show the importance of activated adsorption of ammonia in the presence of surface oxides. The temperature dependence of the adsorption rate indicates a high activation energy. P. A. Tesner (Ref. 5) treated the carbon black surface by a method that is based upon decomposition of benzene at 780-790°C after the reaction C6H6 = 6C + 3H2. The carbon black surface is covered by some molecular layers of carbon, and is thus insulated against the effect of surface oxides. Figs. 2 and 3a compare the adsorption of ammonia on the

surface of anthracene carbon black treated by the Tesner method, and

Card 2/2

S/069/61/023/001/001/009 B020/B056

Adsorption of ammonia vapors ..

also not treated anthracene carbon black. German anthracene carbon black had a specific surface of 110  $m^2/g$ ; its aqueous suspension had a pH of 3.6 owing to its high surface oxide content. After treatment of the carbon black, the weighed portion was increased by 8.7%, and the specific surface, decreased to 84  $m^2/g$ . Of particular interest is the occurrence of hysteresis on such surfaces whose amount is higher than half the amount of the monomolecular layer (Fig. 2). After the product had been subjected to thermal treatment for a long time, part of it was annealed in a reduced atmosphere at 1250°C, whereby the hysteresis was not removed and the character of the adsorption isothermal lines was not changed (Fig. 3,2). The experiments carried out with furnace black annealed at 1250°C showed (Fig. 3,5) that the desorption branch considerably exceeds the adsorption branch. The absolute adsorption isothermal lines of ammonia on original and German acetylene carbon black P-1250 annealed at 1700°C, were compared with the isothermal lines for graphitized carbon black (Ref. 8) (Fig. 4). P. A. Tesner and N. N. Lezhnev are thanked. There are 4 figures and 9 references: 5 Soviet-bloc and 4 non-Soviet-bloc.

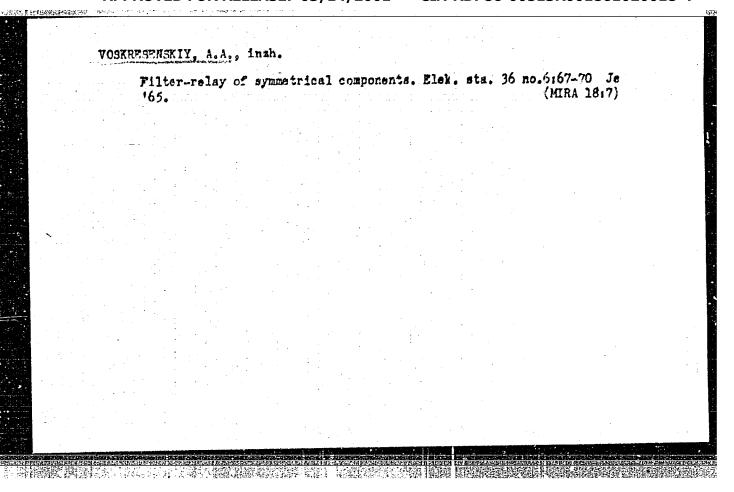
Card 5/7

Moscoro Inst. of Chem. Machery, Chr. Gen Chem.

SHIDLOVSKIY, A.A.; VOSKRESENSKIY, A.A.

Heats of formation of lithium, strontium, lead, and silver iodates and potassium metaperiodate. Zhur. fiz. khim. 39 no.6:1523-1526 Je '65. (MIRA 18:11)

1. Moskovskiy institut khimicheskogo mashinostroyeniya. Submitted July 22, 1964.



VOIDDINA, N.A.; SHIDLOVSKIY, A.A.; VOSKRESENSKIY, A.A. Heats of formation of alkali metal chlorates. Zhur. fiz. khim. (MTRA 18:3) 38 no.6:1703-1705 Je '64. 1. Moskovskiy institut khimicheskogo mashinostroyeniya. 

SHIDLOVSKIY, A.A.; VOSKRESENSKIY, A.A.

Heats of formation of strontium, lead, and silver sulfites.

Zhur. fiz. khim. 37 no.9:2062-2063 S '63. (MIRA 16:12)

l. Moskovskiy institut khimicheskogo mashinostroyeniya.

# VOSKRESENSKIY, A.A.

Attachment for working with solutions consitive to the action of air. Zav.lab. 29 no.8:1012-1013 \*63. (MIRA 16:9)

1. Moskovskiy institut knimicheskogo mushinostroyeniya. (Chemical apparatus)

VOSKRESENSKIY, A. A.

32492. Trekhchastotnyy zagraditel' dlya vysokochastotnykh kanalov. (S primech. red.). Elektr. stantsii, 1949. No. 10, s. 54-55

SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

VOSKRESENSKIY, A. A.

<u>VOSKRESENSKIY, A. A.</u> and KORELOV, T. I. <u>Some Peculiarities of an Automatic Reclosing</u>

<u>Device Equipped with EVP-285 Relay</u> (Nekotoryye Osobennosti Skhemy

AFV s Rele EVP-285), p. 40

The features and operation of EVP-285 relay used for automatic reclosing of circuit breakers is briefly discussed. (Drawing and graph).

SO: ELEKTRICHESKIYE STANTSII, No. 12, Dec. 1952, Moscow (1614306)

- 1. YOSKRESINSKIY, A. A.: KORELOV, T. I.
- 2. USSR (600)
- 4. Electric Switchgear
- 7. Some peculiarities of the atuomatic reclosing scheme with the EVP-285 relay. Elek. sta., 23, no. 12, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

VOSKRESENSKIY, A.A., inshener; KORELOV, T.I., inshener.

Shortcoming in the design of a protection scheme with a VTH-561 transformer. Elek.sta. 24 no.9:55-56 S '53. (MLRA 6:8)

(Electric transformers) (Electric circuits)

en disperanti di Artini di Sono della di Sono				6	
				1857. Calculation of the entering of francism pro- cesses in electric circuits containing from A. A. Nonnancental. Elektrickettvo, 1854, No. 1, 61-8.	
				In Russian.	
				The method shown permits an approximate calculation of the transient current in a circuit with a	
				nonlinear inductance for sinusoidal flux. The	
<b>999 .</b>	1. Maradanandan Aba	ntunnt a		advantage is that the transient current may be calculated from the constants of the magnetic charge.	
Electrica	1 Engineering Abs	actaces		teristic of the circuit and the initial and final conditions	
May 1954				of the process without considering the damping	
Engineeri	ng•			of the free flux. The analytical method is correspond- ingly simple and its errors are acceptable. They are	
				due to the discrepancy between the actual magnetic-	
•	•		:	characteristic and the analytical expression assumed	
		•		for its representation, to possible inaccuracies in the Fourier analysis of the components of the composite	<b>X</b>
				current curve, the insocuracy of the representation of	**************************************
				the time-relation of the current and the neglect of influences of hysteresis and eddy currents. The total	
				error of the first two approximations may reach	
		• ,		10-15% that of the third 5-7%; however, in the	, , ,
				range of strong alternating fields which usually	
		*•	٠.٠	accompany transient processes, the neglect of hysteresis causes no appreciable error. The remits	
the state of the state of		•		of the calculations agree well with experimental	
				results. The representation of the complicated current curve by a series of periodic functions is very useful	
				for the analysis of complicated electric circuits.	ij
				B. F. KRAUS	-14
	•	•		The state of the s	

VOSKRESENSKIY, A. A.

AID P - 2814

Subject

: USSR/Electricity

Card 1/2

Pub. 27 - 3/30

Author

: Voskresenskiy, A. A., Eng. Gor'kiy

Title

Calculation of transient currents in a current trans-

former

Periodical

: Elektrichestvo, 6, 12-19, Je 1955

Abstract

: The author attempted to determine ant titing current current transformer the transient magnetizing current as dependent upon the characteristics of the transformer and upon the actual conditions of the electric former and upon the actual conditions of the electric network. The author analysed the complex curve of the magnetizing current as a harmonic series of the magnetizing current as a harmonic series of periodic currents. On the basis of calculations, equations were obtained for the computation of the maximum value of induction and of the time corresponding to that value. These equations give also a general solution for the computation of the magnetizing current

AID P - 2814

Elektrichestvo, 6, 12-19, Je 1955

Card 2/2 Pub. 27 - 3/30

> according to given characteristics of the transient process and to magnetic characteristics of the transformer. The author gives an estimation of errors of his method and gives also some numerical examples. Three diagrams, 4 Soviet references

(1935-1954).

Institution : None

Submitted Ap 28, 1954

VOSKRESENSKIY, A.A., inzhener.

Analysis of the work of intermediate saturable transformers for differential protection. Elec.sta. 26 no.1:35-41 Ja 155.

(Electric transformers) (MLRA 8:3)

	Current transformers with steel cores of small cross section in differential protection systems for generators. Elek.sta.27 no.12:56 D *56. (MLRA 10:1) (Electric transformers)						
-							
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VOSKRESENSKIY A.A.

Voskresenskii, A.A., Engineer. AUTHOR:

104-3-17/45

TITIE:

The main relationships between the peak and effective values in magnetisation characteristics. (Osnovnye sootnosheniya velichin amplitud i deystvuyushchikh znacheniy v kharakteristikakh mamagnichivaniya)

"Elektricheskiye Stantsii" (Power Stations), 1957, PERIODICAL:

Vol. 28, No.3, pp. 54 - 58 (U.S.S.R.)

ABSTRACT: In carrying out measurements particular attention should be paid to marked deviation from sinusoidal wave form of current or voltage. Allowances are not always made correctly and it is, therefore, advisable to examine the premises by which the degree of distortion of wave forms may be evaluated from the saturation and possible peak and effective values of voltage and current. It is particularly important in making the measurements to use the right kind of instruments, electromagnetic or electro-dynamic but not universal a.c. - d.c. instruments which respond to the mean value of the current. The relationships between peak and effective values are considered in some detail for the case of sinusoidal voltage wave form, mainly transformer magnetising current. Reference is made in particular to current transformers. The case of sinusoidal current form is then considered; this occurs on

Card 1/2

104-3-17/45

The main relationships between the peak and effective values in magnetisation characteristics. (Cont.)

the open circuit secondary winding of a current transformer or in conditions that occur on certain instrument transformers in protective circuits. An example is then given of calculation of an e.m.f. with sinusoidal current wave form. It is concluded that distortion of current or voltage wave form caused by non-linearity of magnetic characteristics can cause large errors in measurements of effective and peak values of current or voltage if the test circuit does not deliver the appropriate wave form of current or voltage that corresponds to actual conditions. The property of magnetic characteristics that they satisfy definite equations makes it possible to calculate the effective and peak values of current and voltage with sufficient accuracy for practical purposes.

It is, therefore, recommended to obtain from the manufacturers of current transformers details of the magnetic characteristics.

There are 2 figures and 2 tables.

AVAILABLE: Library of Congress

Card 2/2

VOSKRESENSKIYA.A.

PROTECTION & RELAYING

"On the Choice of Current Transformers on the Basis of the Ratio Curves" by Engineer A A Voskrese: 3kiy, Elektriche-skiye Stantsii, No. 5, May 1957, Pages 62 -- 63.

VOL 28

Points out a few vague items in the present "Standard Instructions on Relay Protection" concerning the choice of current transformers for relay protection, and indicates the effect of the saturation of these transformers on the operating characteristics of the system. Makes certain recommendations for future revisions of these instructions.

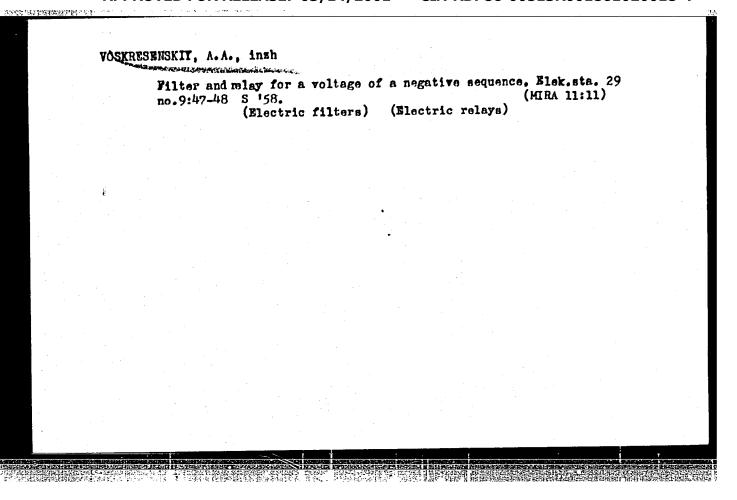
Card 1/1

VOSKRESENSKIY, A.A., insh.; VVEDEMSKIY, K.S., insh.

Testing differential protective gear having saturating transformers.

Blek.sta. 29 no.3:76-78 Mr 158. (MIRA 11:5)

(Blectric relays) (Blectric transformers)

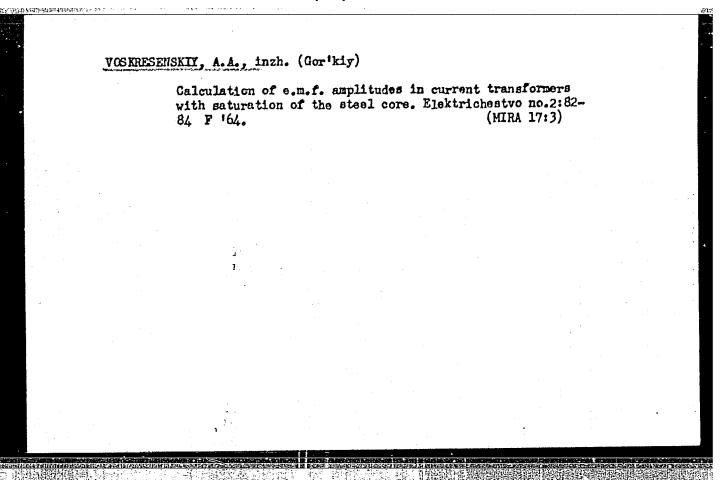


### VOSKRESENSKIY, A.A.

Adsorption of ammonia vapor on carbon black. Koll. zhur. 23 no.1:3-7 Ja-F '61. (MIRA 17:2)

1. Moskovskiy institut khimicheskogo mashinostroyeniya, kafedra obshchey khimii.

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"



The second secon

## VOSKRESENSKIY, A.A., inzh.

"Current transformers in relay protection networks" by B.E. Kazanskii.
Reviewed by A.A. Voskresenskii. Elek. sta. 32 no.2:95-96 F '61.

(MIRA 16:7)

(Electric transformers) (Electric protection)

(Kazanskii, B.E.)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

VOSKRESENSKIY, A.A., inzh.; CHERVONNYY, Ye.M., inzh.

Features of designing electric protection systems using operative a.c. Elek. sta. 32 no.12:53-55 D '61. (KIRA 15:1) (Electric protection)

VOSKRESENSKIY, A.D., kapitan meditsinskoy slumby; PROKHOROV, A.I., inzh.,

Rapitan-Reytenant

Use of electronic calculating machines in medicine. Voen.med.zhur. no.6:81-88 Je '59. (MIRA 12:9)

(MEDICINE, MILITARY AND NAVAL
electronic calculating machines, uses (Rus))

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

VOSKRESENSKIY, A.D.; PROKHOROV, A.I. (Moskva)

Use of the computing apparatus in medicine. Sov.zdrav. 18 no.8:19-25
'59. (MIRA 12:12)

(CYBERNETICS)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

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VOSKRESENSKIY, A.D. (Moskva); PROKHOROV, A.I.

Utilization of eletronic computing machines in medical statistics.

Sov.zdrav. 19 no.2:25-33 '60. (MIRA 13:5)

(KINGTRONIC CALCULATING MACHINES)

(STATISTICS, MEDICAL)

39908

27,1230

S/044/62/000/007/087/100 C111/C333

AUTHORS:

D., Prokhorov, A. I. Voskresenskiy, A.

TITLE:

Cybernetic problems in medicine

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 7, 1962, 74, abstract 7V353. ("Kibernetiku-na sluzhbu kommunizmu. I. I."

M.-L. Gosenergoizdat, 1961, 126-140)

According to the authors, the purpose of a cybernetic approach to the examination of the control processes of the life functions of an organism consists of the following: 1) the determination of the structure of the control system; 2) the determination of the dynamic characteristics of the control system; 3) the determination of the individual variants of the function control dynamics; 4) the determination of possible deviations in the function control system. The authors shortly describe how the problems given above are dealt with by means of cybernetics and, especially, by means of the theory of automatic control, both mathematically and technically. The authors then shortly describe the possibilities and problems of the automatic compilation of the information, as well as the problematic and hopes of applying electronic computers to the work-up of diagnostic information. The last chapters of the paper are devoted to the problems of an automatic control of physiological systems and to the role of the electronic computer in medical statistics and in the organization of medical care.

Abstracter's note: Complete translation.

VASILYEV, P. V., VOSKRESENSKIY, A. D. and GAZENKO, O. G.

"Some Problems of Experimental Space Physiology"
report presented at the 13th Intl. Astronautical Federation Congress (IAF)
Varna, Bulgaria, 23-29 Sep 1962

8/0000/63/000/000/0112/0115

ACCESSION NR: AT4042665

TITLE: Effect of prolonged transverse accelerations on cardiac activity

SOURCE: Konferentsiya po aviatsionnoy i kosmicheskoy meditsine, 1963. Aviatsionnaya i kosmicheskaya meditsina (Aviation and space medicine); materialy.

TOPIC TAGS: transverse acceleration, cardiac activity, narcotized dog, konferentsii. Moscow, 1963, 112-115

ABSTRACT: Experiments were conducted on narcotized dogs to determine the effect of prolonged transverse accelerations on cardiac activity. The dogs were exposed myocardial hypoxia or protonged transverse accelerations on cardiac activity. The dogo were exposite accelerations of 3 g and 6 g for 1 and 4 min, and to an acceleration of 9 g. for 1 min. The dogs were subjected both to vertical (back-to-chest) accelerations nor 1 min. The dogs were subjected both to vertical (back-to-chest and pelvis-to-head and to tilt-table (450) accelerations with equal back-to-chest and pelvis-to-head components. Oxygen blood levels were determined from samples taken from arteries and coronary sinus before and during acceleration. Out flow per minute of blood from the coronary sinus was measured, and EKG's were taken with standard leads. Respir tory ventilation was maintained at normal levels with a respirator.

Card 1/3

Regular decrease of the O blood level in the coronary sinus and simultaneous increased outflow from the sinus indicate that the oxygen requirement of the heart increases during exposure to transverse acceleration. Maintenance of a sufficient level of cardiac circulation is apparently a basic factor in compensating the increased oxygen requirement of the myocardium. Under conditions of reduced flow of blood from the sinus, cardiac disturbances occurred even when no decrease in arterial O level took place during acceleration. On the other hand, severe impairment of oxygenation by 4 min of 6-g acceleration was never accompanied by arrhythmias or slowed pulse so long as sinus outflow remained at the increased level. Increased sinus outflow cannot be taken as an absolute indicator of cardiac blood supply sufficiency. In some cases, especially when the arterial 02 level drops and arteriovenous differentiation is weak, the effect of circulation may reach a limit beyond which it cannot prevent the development of myocardial hypoxia. Interference with oxygenation of the blood increases the strain on compensatory mechanisms, as shown by the existence of a correlation between the arterial 02 level and the quantity of O2 absorbed from the blood by the myocardium. Tilttable trials (at 45°) showed the hemodynamic shifts caused by a head-to-pelvis acceleration component significantly reduce the efficiency of myocardial blood supply.

Card 2/3

ACCESSION NR: AT4042665

ASSOCIATION: none

SUBMITTED: 275ep63 ENCL: OO SUB CODE: LS

NO REF SOV: OOO OTHER: OOO

S/216/63/000/001/002/004

AUTHORS:

Vasil'yev, P.V., Voskresenskiy, A.D., Gazenko, O.G.

TITLE:

Experimental studies in space physiology

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya biologicheskaya,

1963, 15 - 23

TEXT: The accumulation of data relating to the physiological effects of space traveling upon the human organism makes it necessary to consider the two alternatives of experimental research: 1) the study of individual functions (heart activity, respiration, etc.) under the influence of certain factors of actual space flight; 2) the study of the physiological effects of certain factors of space flight. The second alternative involves comprehensive animal experiments which, though only indicative of the relevant reactions of the human organism, make it possible to work out diagnostic criteria and training programs. The necessity of experimental research into the physiological mechanisms is illustrated by the effects of transverse acceleration. Data relative to pulmonary circulation, oxygen consumption by the cardiac muscle, oxygen tension in the

Card 1/2

Experimental studies in space physiology

S/216/63/000/001/002/004 A066/A126

cerebral tissues, and the functions of the central nervous system, as well as literature data were used to set up a diagram illustrating the principal physiological effects of transverse acceleration which are as follows: 1) Changes in pulmonary ventilation and in the redistribution of blood in the lungs disturb the oxygenation of blood in the lungs; 2) redistribution of blood in the vascular system of the cerebrum, accompanied by a higher intensity of the afferent impulses, disturbs nutrition and the regulatory activity of the brain; 3) general changes of the hemodynamic conditions deteriorate the supply of 02 to the heart. These pathological symptoms were observed exclusively in transverse accelerations lasting longer than 1 min. It appears possible to describe physiological changes quantitatively and to set up a model reproducing physiological changes in the human organism under various conditions of space traveling. Such a model will permit an estimate and prognosis of the astronaut's state of health. In addition, better training programs may thus be worked out, and also the action of pharmacological and other agents can be examined under conditions of space flight.

SUBMITTED: August 24, 1962

Card 2/2

## "APPROVED FOR RELEASE: 03/14/2001

## CIA-RDP86-00513R001861020018-4

ACCESSION NR: AF 9004435, A/A.

AUTHORS: Voskresenskiyf, A. D.; Elsol yev, A. A.; Bryuzgina, M. I.

TITLE: Cardiac circulation and myocardial oxygen consumption during lateral acceleration.

SCURCE: AN SSSR. Doklady, v. 151, no. 4, 1963, 978-981

TOPIC TAGS: acceleration, cardiac circulation, myocardial oxygen consumption.

ABSTRACT: Cardiac circulation and myocardial oxygen consumption were studied in 2 series of dogs subjected to a lateral acceleration (spine-thorax) of 6 g for 1 min and 4 min. A DP-24 pparatus was used to ensure that the heart was supplied with sufficient oxygen. After 1 min acceleration at 6 g the percentage of oxygen in blood from the arteries and colonary sinus and the arteriovenous difference were only slightly different from the initial values. In the majority of cases the rate at which blood was discharged from the coronary sinus was higher. There has a conditions the authors consider that the body's compensatory mechanisms these conditions the authors consider that the body's compensatory mechanisms are adequate. After 4 min acceleration the percentage oxygen in arrerial blood are adequate. There was also a reduction in the percentage oxygen in a principle of the coronary sinus. However, this reduction was not large and maintain the initial value for arteriovenous differences. In all cases there was maintain the initial value for arteriovenous differences.

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	Tal pressure. The authors consid	
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ASSOCIATION: none		
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s/2865/64/003/000/0379/0388

ACCESSION NR: AT4037707

AUTHOR: Vayevskiy, R. M.; Bogdanov, V. V.; Voskresenskiy, A. D.; Yegorov, A. D.; Chekhonadskiy, N. A.

TITLE: The application of mathematical methods in space medicine

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 3, 1964, 379-388

TOPIC TAGS: space medicine, mathematics, cybernetics, space flight, pulse rate, acceleration, cosmonaut, manned space flight

ABSTRACT: This article deals with the interpretation of results and concepts presented in six articles which were published in 1962-1963. These articles were written chiefly by the author of the article reviewed here. It is stressed that in the last few years new trends have appeared in biology and medicine where mathematical methods are extensively used. These trends appear to be of great importance in space biology and space medicine because of special conditions affecting biological experiments and medical protection of organisms during space

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ACCESSION NR: AT4037707

flights. An important problem of space biology and medicine is that of obtaining scientific information during space flights and transmitting the information to earth by means of radiotelemetering systems. The determination of optimal methods for coding such information which will ensure the most effective utilization of channels is the most important factor in designing radiotelemetering systems in space ships. For the solution of such problems the mathematical apparatus of the information theory is proposed. As an example, certain problems in coding electrocardiograms are presented. The problem of coding of information includes the problem of designing simple and economical coding devices such as digital computers, integrators, and others. Functions to be performed by computers in spaceships and the principles of their design are analyzed. It is noted that development of algorithms for computers in spaceships is a very complicated problem whose solution will require the use of mathematical logic, probability theory, and other mathematical disciplines in addition to biological and medical information. As an example, an algorithm for processing electrocardiograms is presented. The methods of mathematical simulation must be applied to the construction of schemes for analyzing and prognosing changes in the state of an astronaut. Mathematical models reflecting the dynamics of physiological indices (pulse rate, blood pressure, etc.) due to the action of certain factors during space flight can be

Card 2/3

### "APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001861020018-4

ACCESSION NR: AT4037707

developed on the basis of experimental data obtained in laboratories by using the methods of mathematical statistics. Statistical indices such as mathematical expectation, variance, and correlation function must be established. Pecularities encountered in determining statistical indices for space biology and space medicine are analyzed. As an example, the problem of prognosing the pulse rate when a cosmonaut is subjected to linear accelerations is presented. It is concluded that quantitative descriptions of physiological processes and the construction of mathematical models reflecting the principal changes in organisms under various space flight conditions are possible. The authors believe that the problems analyzed in the article represent only a small part of the questions in space biology and space medicine which will require mathematical methods for their solution.

ASSOCIATION: none

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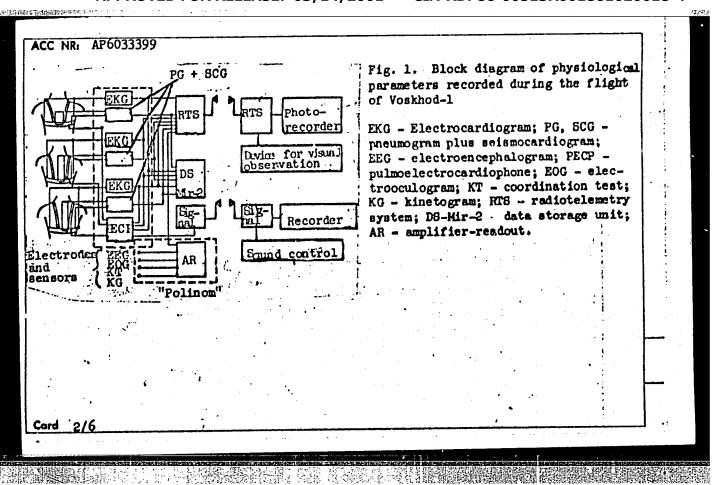
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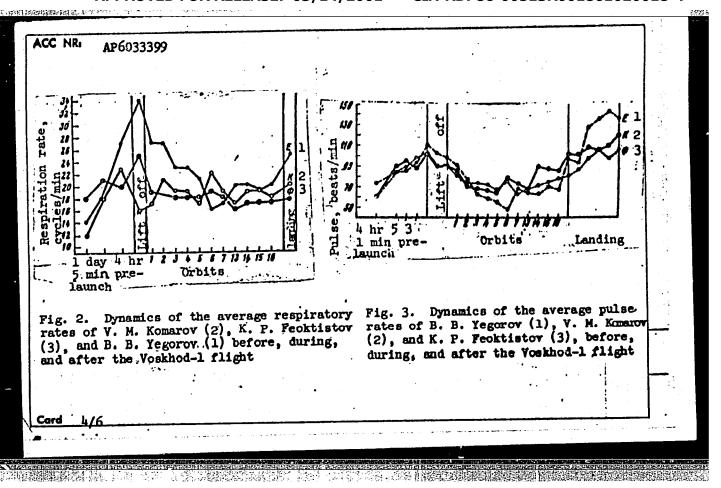
OTHER: OOO

Card 3/3

	an, I. I.; Maksim	ov, D. G.	T.; Yasil'yey	VORKER	enskiy.	1
ORG: none						
TITIE: Some spacecraft	data on the cond	ition of cosm	onauts during	the flight of th	e <u>Voskhod-1</u>	1
SOURCE: Kos	micheskiye issled	ovaniya, v. 4	, no. 5, 1966, '	755 <b>-</b> 767	•	3
TOPIC TAGS:	space physiology ous system, vestil	precent	do human stand		scular	
ABSTRACT: A	diagram of the bi	omedical mon	toring paramete	ers and some resuremented in the	following	
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Table 2. S (2), and B.	ome indices of the B. Yegorov (3) be	cardi efore a	ac a nd di	ctivi uring	ty of	f V.	M. Ko	omaro f Vos	ov (1 skhod	), K. -1	. P.	<b>Peok</b> t	istov	
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Table 3. Results of a statistical analysis of R-R intervals for V. M. Komarov (1), K. P. Feoktistov (2), and B. B. Yegorov (3) before and during the Voskhod-l flight

analyzer and its interaction with other analyzers leading to the possible development of prolonged spatial disorientation illusions and prolonged vestibuloautonomic reactions which decrease the work capacity of cosmonauts. Orig. art. has: 4 figures and 4 tables.

SUB CODE: 06/ SUBM DATE: 26May66/ ORIG REF: 010/ OTH REF: 001/ ATD PRESS: 5100

Card 6/6

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

L 14246-66 RD

ACC NK: AT6003857

39

SOURCE CODE: UR/2865/65/004/000/0227/0236

AUTHOR: Voskresenskiy, A. D.; Gazenko, O. G.; Izosimov, G. V.; Kopaney, V. I.:
Maksimov, D. G.; Yazdovskiy, V. I.

ORG: none

TITLE: Some physiological data for evaluating the condition and work capacity of cosmonauts under conditions of orbital flight

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 227-236

TOPIC TAGS: manned spaceflight, EEG, skin, cosmonaut, space psychology, brain, biosensor, bodily fatigue, vision

ABSTRACT: This paper presents some graphic results of biomedical data from the Vostok-5 (V. F. Bykovskiy) and Vostok-6 (V. V. Tereshkova) flights. These include records of EEG's, EOG's, and skin galvanometry.

In summing up these data, the authors observed that a distinguishing feature of brain bioelectricity during the first hours and days of the flight was the increase in the index of high-frequency oscillations. No increase in the index of low-frequency oscillations was observed. Also characteristic of the initial flight period were elevated oculomotor activity and a rise in the

Card 1/2

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ACC NR: AT6003857

number of rapid variations in cutaneous electrical resistance per unit of time. These reactions probably reflected the emotional state associated with initial flight stages. Such factors as radio communications with ground control points and between spacecraft, the reception of commands and signals, and observation of the surface of the Earth and other heavenly bodies act as powerful stimuli eliciting a high level of psychoemotional reactions.

The process of adaptation to flight conditions was reflected in EOG and skin galvanometric indices, in that oculomotor activity and the mean number of rapid variations in the skin galvanic reaction showed significant decreases.

It is felt that the EEG, EOG, and skin galvanometric data from Vostok-5 and -6 reflected the psychoemotional adaptation of Bykovskiy and Tereshkova to prolonged spaceflight. EEG changes and a sharp decrease in oculomotor activity can act as prognostic indices of progressive fatigue. EOG data can be used to judge the effect of weightlessness on the function of the vestibular analyzer. However, it is noted that changes in all of the indices during the spaceflight did not correspond to subjective feelings of fatigue, vestibular symptoms, or a noticeable decrease in working ability. Orig. art. has:

3 figures. [ATD PRESS: 4091-F]
SUB CODE: 06 / SUBM DATE: none / CRIG REF: 012 / OTH REF: 003

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

VASIL'YEV, P.V.; VOSKRESENSKIY, A.D.; KAS'YAN, I.I.; MAKSIMOV, D.G.; CHEKHOMADSKIY, N.A.; PESTOV, I.D.

Reactions of cardiovascular and respiratory systems of astronauts in orbital light on the spaceship "Yoskhod-1." Izv. AN SSSR. Ser. biol. no.4:491-499 J1-Ag '65. (MIRA 18:7)

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

ACC NR: AP6000309

L'9890-66 FSS-2/ENT(1)/FS(v)-3/EEC(k)-2/ENA(A) -2/E#A(A) TT/DD/G# SOURCE CODE: UR/0293/65/003/006/0927/0934

AUTHOR: Yoskresenskiv, A. D.; Venttsel', M. D.

ORG: none

TITLE: The use of correlation analysis methods for studying the human cardiovascular reaction to the space flight of Voskhod-1

SOURCE: Kosmicheskiye issledovaniya, v. 3, no. 6, 1965, 927-934

TOPIC TAGS: human physiology, manned space flight, cardiovascular system, correlation analysis, Voskhod 1, Komarov, Feektistev, Yegorov

ABSTRACT: The authors selected EKG samples from the Voskhod-1 crew representing 100-300 cardiac cycles, from which the functions of autocorrelation and intercorrelation were computed for the R-R and Q-T intervals. During the prelaunch period, slow wave-like variations in these intervals were noted for the entire crew; the fluctuation period consisted of 56-64 cardiac cycles. The R-R and Q-T intercorrelation function had a cosinusoidal form. In the 14th orbit, when Komarov's pulse was equivalent to his prelaunch reading, the R-R fluctuation period was 12-16 cardiac cycles. At this time, the Q-T interval did not vary, which supports the opinion that cardiac working efficiency is maintained during weightlessness. Slow R-R fluctuations were not observed for any crew member during rest or sleep. It was concluded

Card 1/2

UDC: 629.198.61

	L 9890-66  ACC NR. AP6000309  that emotional factors effecting circulatory regulation were responsible for R-R and [CD]  Q-T fluctuations. Orig. art. has: 3 figures.
	SUB CODE: 06 SUBM DATE: 05Jun65/ ORIG REF: 010/ OTH REF: 006/ ATD PRESS 4/65
, ME.	
	$\mathcal{F}_{\mathcal{F}}}}}}}}}}$
	Card 2/2

VOLYNKIN, Yu.M., general-leytenant meditsinskoy sluzhby; VOSKRESENSKIY, A.D.,
mayor meditsinskoy sluzhby

Madleobiological studies on the multiseat space ship "Voskhod."

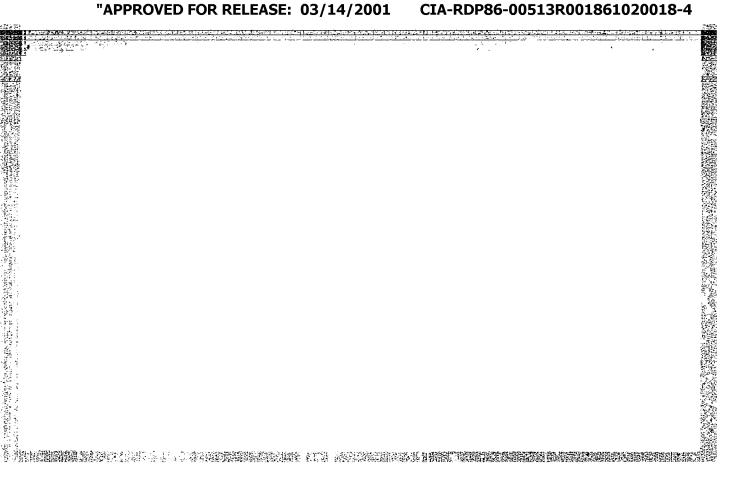
Voen.-med.zhur. no.11:6-8 '64. (MIRA 18:5)

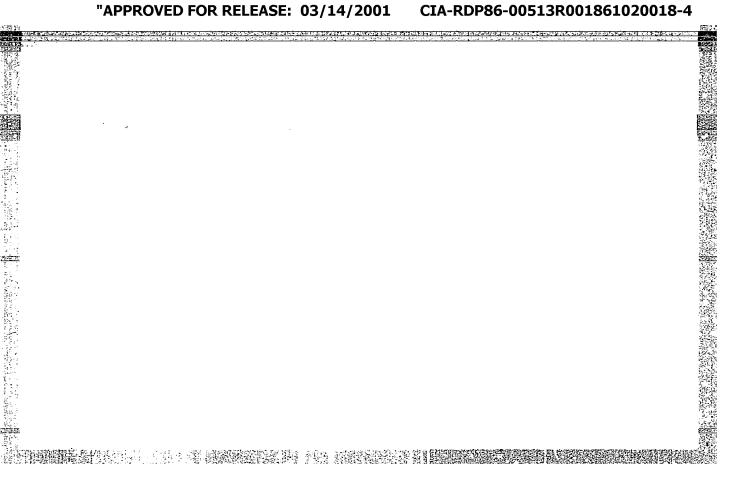
APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4"

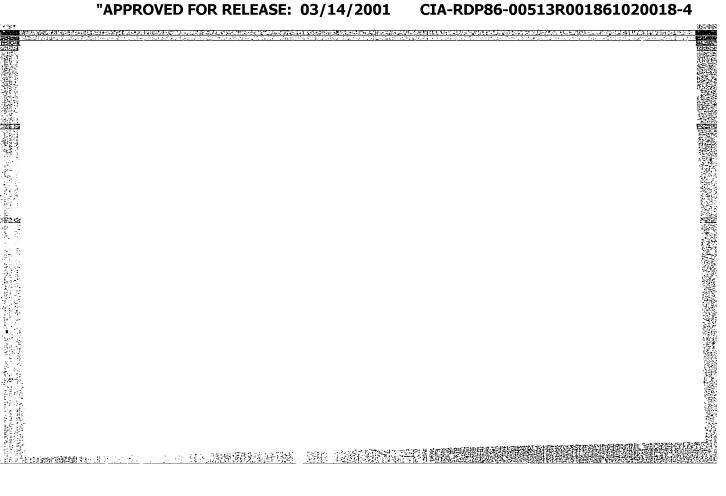
VOSKRESENSKIY, A.D.; GAZENKO, O.G.; IZOSIMOV, G.V.; MAKSIMOV, D.G.;
YAZDOVSKIY, V.I.; KOFANEV, V.I.

Some physiological data for the evaluation of the state and
efficiency of astronauts in orbital (lights. Probl. kusm.
efficiency of astronauts in orbital (lights. Probl. kusm.)
biol. 4:227-236 '65.









"APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001861020018-4

